



PATENT ABSTRACTS OF JAPAN

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B01D 29/06(21) Application number: **62327470**(22) Date of filing: **25.12.1987**(71) Applicant: **TOYO ROKI SEIZO KK**(72) Inventor: **KADOYA TERUKAZU**(54) **FILTER ELEMENT**

(57) Abstract:

PURPOSE: To obtain an increased filtration area of a filter element by folding each crest part of a corrugated filter medium at a side end part of the medium in such a manner that the crest part may contact closely to each adjacent flat filter medium, closing an end part of each crest part by the folded part, folding similarly each valley part adjacent to each crest part at another side end of the filter medium in the same manner and closing an end of each valley part by the folded part.

CONSTITUTION: A filter element 1 is constituted of a sheet shaped flat filter medium 2 and a corrugated filter medium 3. In this case, each crest part 3a of the corrugated filter medium 3 is folded at a side end SL of the corrugated filter medium 3 in such a manner that each crest part 3a may closely contact each flat filter medium 2, and the end part 3e of each crest part 3a is closed by the folded part 4. Further, each valley part 3b is folded at the other side end SR of the corrugated filter medium 3 in such a manner that each valley part may closely contact each flat filter medium 2, and the

end part 3e of each crest part 3b is closed by the folded part 5. As a result, both end parts SL and SR of the corrugated filter medium 3 are used effectively as filtration area, the ventilation resistance is reduced, and an increased filtration area is obtd.

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